

Safety Data Sheet

Date of Print:

according to 1907/2006/EC, Article 31

Version: 1.0

SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

- 1.1 Product Identifier**
Substance name: SupraNano Fluorescent Yellow Magnetic Latent Fingerprint Powder
Product no.: 02FYW030
- 1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against**
Relevant identified uses: Professional Uses [SU 22]; Law enforcement/forensic applications. [PC0] Other; Fingerprint development
Uses advised against: No further relevant information available
- 1.3 Details of Supplier of Safety Data Sheet**
Manufacturer: ArroGen SupraNano Ltd.
Address: INEX Business Facility, Herschel Annex
 Newcastle University Campus
 Newcastle upon Tyne
 NE1 7RU
 United Kingdom
www.arrogroup.co.uk
- 1.4 Emergency Telephone Number**
Telephone number: +44 (0) 560 364 6985 (Languages: English)
Opening hours: Monday – Friday, 0900 - 1700

SECTION 2: Hazards Identification

- 2.1 Classification of the Substance or Mixture**
2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]
 This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272 on classification labelling and packaging of substances and mixtures.
- 2.2 Labelling according to Regulation (EC) No 1272/2008 [CLP]:**
 The product does not need to be labelled in accordance with EC directives or respective national laws.
- Precautionary statements:**
- | | |
|----------------|---|
| P264 | Wash hands thoroughly after handling |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. |
| P337+P313 | IF eye irritation persists: Get medical advice/attention |

SECTION 3: Composition/Information on Ingredients

- 3.2 Mixtures**
Description of Mixture: None of the components of this mixture meet the criteria for classification and therefore are not disclosed.

SECTION 4: First Aid Measures

- 4.1 Description of First Aid Measures**
- Following inhalation:** Supply fresh air. If required, provide artificial respiration. Keep warm. Consult doctor if symptoms persist. Seek immediate medical advice.
- Following skin contact:** Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice
- Following eye contact:** Rinse opened eye for several minutes under running water. Then consult doctor.
- Following ingestion:** Seek medical treatment
- 4.2 Most Important Symptoms and Effects, Both Acute and Delayed**
- If ingested:** Irritating if swallowed; redness of mouth and throat may occur.
- If inhaled:** Absorption through the lungs, and redness of mouth and throat may occur. Chronic lung conditions may be aggravated by high concentrations of dust.
- If contact with skin:** Mild irritation at site of contact
- If contact with eyes:** Mild irritation and redness
- 4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed**
 No further relevant information available

SECTION 5: Firefighting Measures

5.1	<u>Extinguishing Media</u> Suitable extinguishing media:	Special powder for metal fires. Do not use water.
	For safety reasons unsuitable extinguishing agents:	Water
5.2	<u>Special Hazards Arising from the Substance or Mixture</u> If this product is involved in a fire, the following can be released:	Metal oxide, carbon monoxide and carbon dioxide
5.3	<u>Advice for Firefighters</u> Protective equipment:	Wear self-contained breathing apparatus. Wear full protective suit.
	Hazardous combustion products/special hazards:	Fine, dry dust suspensions can explode in presence of ignition. Combustion produces carbon monoxide, carbon dioxide, smoke, soot and minor amount of nitrogen oxides and sulphur.

SECTION 6: Accidental Release Measures

6.1	<u>Personal Precautions, Protective Equipment and Emergency Procedures</u> Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation. Keep away from ignition sources. Refer to section 8 for personal protection. Do not create dust.
6.2	<u>Environmental Precautions</u> Do not allow material to be released to the environment without proper government permits. Do not allow product to reach sewage system or water bodies. Do not allow to enter the ground/soil.
6.3	<u>Methods and Material for Containment and Cleaning Up</u> Keep away from ignition sources. Ensure adequate ventilation. Vacuum or sweep and transfer to a sealable, labelled container and dispose according to local regulations.
6.4	<u>Reference to Other Sections</u> See section 7 for information on safe handling See section 8 for information on personal protection equipment See section 13 for information on disposal.

SECTION 7: Handling and Storage

7.1	<u>Precautions for Safe Handling</u> Keep containers tightly sealed. Store in a cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace. Avoid formation of dust. Minimise release of the mixture into the environment. Information about protection against explosions and fires: Protect against electrostatic charges.
7.2	<u>Conditions for Safe Storage, Including any Incompatibilities</u> Store in a cool, well-ventilated location. Do not store above 120 °F/48 °C. Keep away from oxidising agents. Keep container tightly closed until in use.
7.3	<u>Specific End Use(s)</u> The intended use of the product is for the visualisation of latent fingermarks only. The powder should be picked up using a magnetic brush, ensuring excess powder is tapped back into the jar. The formed brush head should be wiped gently across the surface of the mark to allow for visualisation. Waste powder should be transferred to a sealable container. See section 13 for information regarding disposal.
7.4	<u>Reference to Other Sections:</u> See section 13 for information on disposal.

SECTION 8: Exposure Controls/Personal Protection

8.1	<u>Control Parameters</u>	Not required.
8.2	<u>Exposure Controls</u> Personal Protective Equipment General protective and hygienic measures:	The usual precautionary measures should be adhered to in handling chemicals. Keep away from foodstuffs, beverages and food. Instantly remove any impregnated garments. Wash hands during breaks and at the end of work. Avoid contact with eyes and skin. Handle in accordance with good industrial hygiene and safety practice by using

Breathing equipment:	adequate ventilation and personal protection as needed. Maintain an ergonomically appropriate working condition. Not required in unconfined or well-ventilated areas. Use NIOSH or EU EN149 standard approved respirators for areas where general ventilation is not possible.
Protection of hands:	Check protective gloves prior to each use for their proper condition. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
Material of gloves:	Impervious gloves
Penetration time of glove material:	Not determined.
Eye protection:	Safety glasses or splash goggles are advised to be worn while handling.
Body protection:	Protective work clothing.

SECTION 9: Physical and Chemical Properties

9.1	<u>Information on Basic Physical and Chemical Properties</u>	
	General Information	
	Appearance:	
	Form:	Powder, iron based
	Colour:	Fluorescent yellow
	Smell:	Not determined
	Odour threshold:	Not determined
	pH-value:	Not applicable
	Change in condition	
	Melting point/range:	Not determined
	Boiling point/range:	Not determined
	Sublimation temperature/start:	Not determined
	Inflammability (solid, gaseous)	
	Ignition temperature:	Not determined
	Decomposition temperature:	Not determined
	Self-inflammability:	Not determined
	Danger of explosion	
	Critical values for explosion:	
	Lower:	Not determined
	Upper:	Not determined
	Steam pressure:	Not applicable
	Density at 20 °C	Not determined
	Settled apparent density at 20 °C:	Not determined
	Relative density:	Not determined
	Vapour density:	Not applicable
	Evaporation rate:	Not applicable
	Solubility in / Miscibility with water:	Insoluble in water and solvents, dispersible in liquids
	Partition coefficient (n-octanol/water):	Not determined
	Viscosity:	
	Dynamic:	Not applicable
	Kinematic:	Not applicable
9.2	<u>Other Information:</u>	No further relevant information available

SECTION 10: Stability and Reactivity

10.1	<u>Reactivity</u>	No information known
10.2	<u>Chemical Stability</u>	Stable under recommended storage conditions
	Thermal Decomposition/conditions to avoid:	No decomposition if used and stored according to specifications.
10.3	<u>Possibility of Hazardous Reactions</u>	Reacts with strong oxidising agents
10.4	<u>Conditions to Avoid</u>	Do not expose to heat above 300 °C. Keep away from oxidising agents in order to avoid exothermic reactions.
10.5	<u>Incompatible Materials</u>	Oxidising agents such as chlorates, bromates and nitrates.
10.6	<u>Hazardous Decomposition Products</u>	Metal oxide, carbon monoxide, carbon dioxide and oxides of sulphur. In combustion emits smoke, soot and toxic fumes.

SECTION 11: Toxicological Information

11.1 Information on Toxicological Effects

11.1.1 Acute toxicity:

This product contains no hazardous ingredients according to Regulation (EC) No 1272/2008 [CLP].

Skin irritation or corrosion: May cause mild irritation at site of contact

Eye irritation or corrosion: May cause irritation and redness

Sensitization: No effects known.

Germ cell mutagenicity: No effects known.

Carcinogenicity: No component of this product at levels greater than or equal to 0.1 % is identified as probably, possible or confirmed carcinogen by IARC.

Reproductive toxicity: No effects

Specific organ system toxicity

Repeated exposure: No effects known.

Single exposure: May cause respiratory irritation.

Aspiration hazard: No effects known

Other information (experimental toxicity): None.

Additional toxicological information: The acute and chronic toxicity of this substance is not fully known.

SECTION 12: Ecological Information

12.1 Toxicity

Aquatic toxicity: No further relevant information available

12.2 Persistence and Degradability: In the presence of humid air the product may form some rust, mainly consisting of hydrate of iron oxide (II) and iron oxide (III).

12.3 Bioaccumulative Potential: No further relevant information available

12.4 Mobility in Soil: No further relevant information available

Additional ecological information: None available

12.5 Results of PBT and vPvB Assessment

PBT: Not applicable

vPvB: Not applicable

12.6 Other Adverse Effects: No further relevant information available.

SECTION 13: Disposal Considerations

13.1 Waste Treatment Methods

Recommendation: Hand over to disposers of hazardous waste. Must be treated under adherence to official regulations. Consult state, local or national regulations for proper disposal of used and unused product.

Packaging: Disposal must be in line with official regulations.

SECTION 14: Transport Information

14.1 UN Number: Not applicable

14.2 UN Proper Shipping Name: Not applicable

14.3 Transport Hazard Class(es): Not applicable

14.4 Packing Group Not applicable

14.5 Environmental Hazards: Not applicable

14.6 Special Precautions for User: Not applicable

14.7 Transport in Bulk According to Annex II of MARPOL73/78 and the IBC Code: Not applicable

SECTION 15: Regulatory Information

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

No data available

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

SECTION 16: Other Information

16.1 Disclaimer:

The above information is believed to be correct, however it does not proclaim to be all-inclusive and shall be used only as a guide. ARRO SupraNano Ltd shall not be held liable for any damage from handling or contact with the

above product. Independent judgement of the suitability of this product should be exercised in supplement to this information to ensure proper use and protect the health and safety of employees.

- (i) **Abbreviations and acronyms:** GHS: Globally Harmonized System of Classification and Labelling of Chemicals
CAS: Chemical Abstracts Service (division of the American Chemical Society)

- (ii) **Key literature references and sources for data**

Toxicity Values: Retrieved from Toxicology Data Network <http://toxnet.nlm.nih.gov/>

This SDS has been compiled and is solely intended for this product.